

Winter arrived with conviction at the dawn of the new year in Oklahoma and delivered a startling counterpunch to the record-shattering heat of December. At least five strong cold fronts traversed the state during January, each one drawing Oklahoma back into a more familiar winter mindset as memories of December's warmth faded. The disparity in the hours below freezing as measured by the Oklahoma Mesonet was demonstrative of the difference between the two winter months. During December, most of the state spent between 50 and 150 hours below freezing. Eufaula had the fewest freezing hours with only 18. In January, those times were more than tripled to between 250 and 400 hours, and Durant's 196 hours was a far greater lowest total. One aspect of the weather that both months shared was the lack of moisture and resulting drought intensification. Drought coverage actually decreased by 2% across the state from 90% at the end of December to 88% at the end of January

January 2022 Statewide Extremes

Description	Extreme	Station	Day
High Temperature	78°F	Waurika	18
Low Temperature	-6°F	Eva	2
High Precipitation	1.86 in.	Talihina	--
Low Precipitation	0.06 in.	Foraker	--

according to the U.S. Drought Monitor. The amount of extreme and exceptional drought, the two worst categories used by the Monitor, had more than doubled from 23% to 49% over that period. Only 4% had satisfactory moisture conditions at month's end, contained within a small area of far east central Oklahoma. Significant snowfall remained scarce, although small patches of the state reported 2 to 5 inches for the month.

According to preliminary data from the Oklahoma Mesonet, the statewide average precipitation total was 0.52 inches to rank as the 20th driest January on record dating back to 1895, 1.05 inches below normal. No part of Oklahoma experienced a surplus during January, with most of the state falling below 25% of normal. Talihina led the Mesonet totals at 1.86 inches, while Foraker had the least with a meager 0.06 inches. Twelve other Mesonet sites failed to eclipse a tenth of an inch during the month, while another 24 sites fell

below a quarter-inch of precipitation. Only 17 sites managed to reach above an inch, all across the eastern half of the state. Combine January with the dreadfully dry December and the first two months of climatological winter falls to the 12th driest on record with a statewide average of 1.4 inches, 2.28 inches below normal. For the Panhandle and north central Oklahoma, it was the third and second driest such periods, respectively. Nearly all areas of the state fell 1 to 3 inches below normal during the first two months of winter.

The statewide average temperature finished at 37 degrees, 1.3 degrees below normal and ranked as the 59th coldest January since records began in 1895. That's a remarkable departure from December 2021's statewide average of 50.4 degrees, a difference of 13.4 degrees between the two winter months. January's highest reading of 78 degrees came at Waurika on the 18th. Eva recorded the lowest January

January 2022 Statewide Statistics

Temperature

	Average	Depart.	Rank (1895-2022)
Month (January)	37.0°F	-1.3°F	59th Coldest
Season-to-Date (Dec-Jan)	43.7°F	4.5°F	2nd Warmest

Precipitation

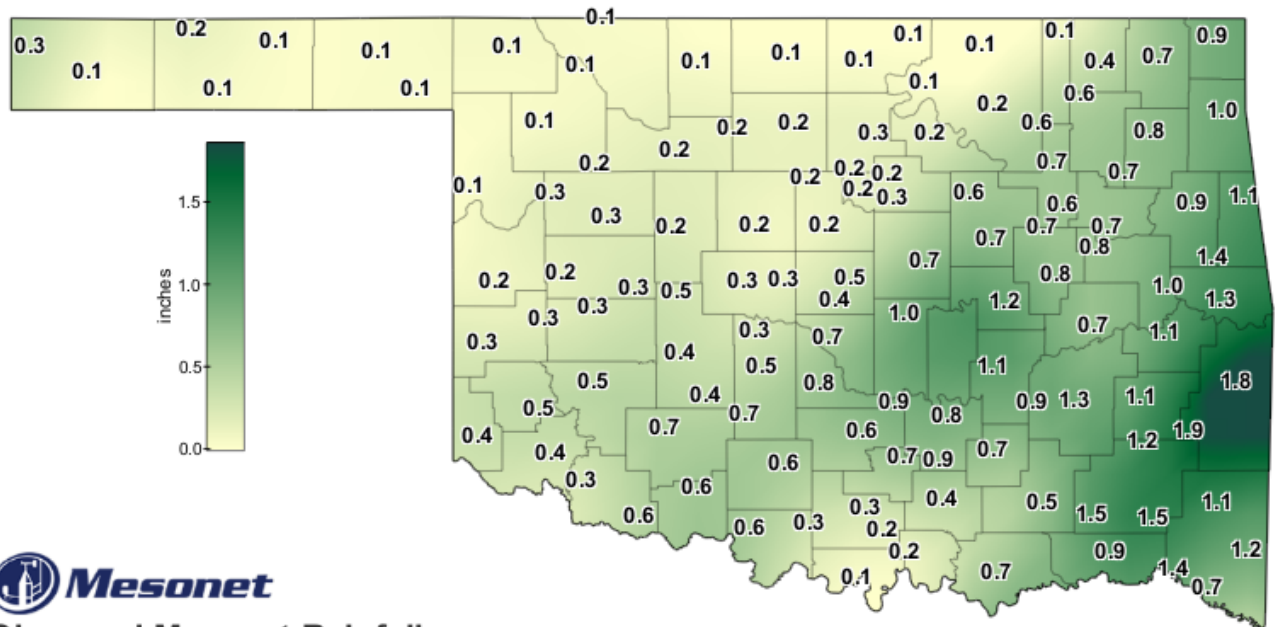
	Total	Depart.	Rank (1895-2022)
Month (January)	0.52 in.	-1.05 in.	20th Driest
Season-to-Date (Dec-Jan)	1.40 in.	-2.28 in.	12th Driest

Depart. = departure from 30-year normal

temperature with minus 6 degrees on Jan. 2. The wind chill at Eva reached as low as minus 22 degrees to lead the Mesonet in that January category as well. There were 43 wind chill values of less than minus 10 degrees across the 120 Mesonet sites during the month. Combined, the first two months of climatological winter finished at 43.7 degrees statewide, the second warmest such period since records began in 1895 and 4.5 degrees above normal. Only the December 1922-January 1923 mark of 44.1 degrees was higher.

The February drought outlook from the Climate Prediction Center does not hold much hope for improvement, save for far southeastern Oklahoma where some relief is noted. Persistence is indicated elsewhere. The temperature outlook maintains equal chances of above-, below-, and near-normal temperatures, and there is only a small sliver of southeastern Oklahoma with increased odds of above normal precipitation according to the precipitation outlook. February is the second driest calendar month for Oklahoma, therefore above normal precipitation would be necessary to impact drought conditions.

JANUARY 2022 OBSERVED PRECIPITATION



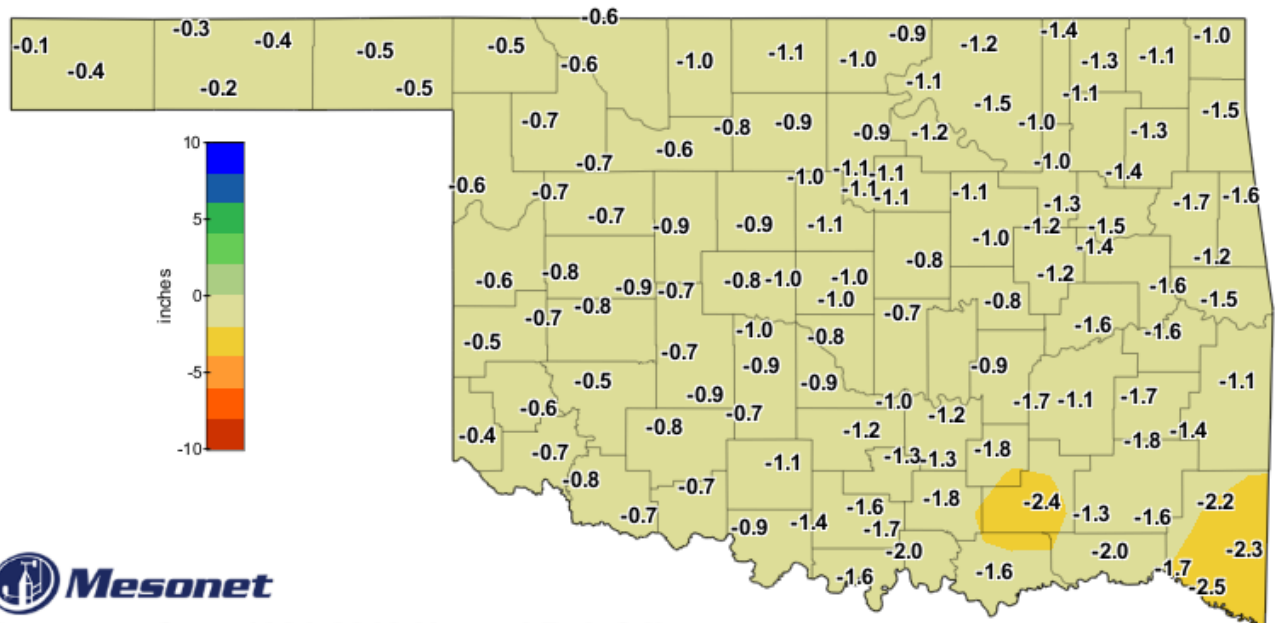
Mesonet

Observed Mesonet Rainfall
Calendar Month to Date

Jan 1, 2022 through Jan 31, 2022

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JANUARY 2022 DEPARTURE FROM NORMAL PRECIPITATION



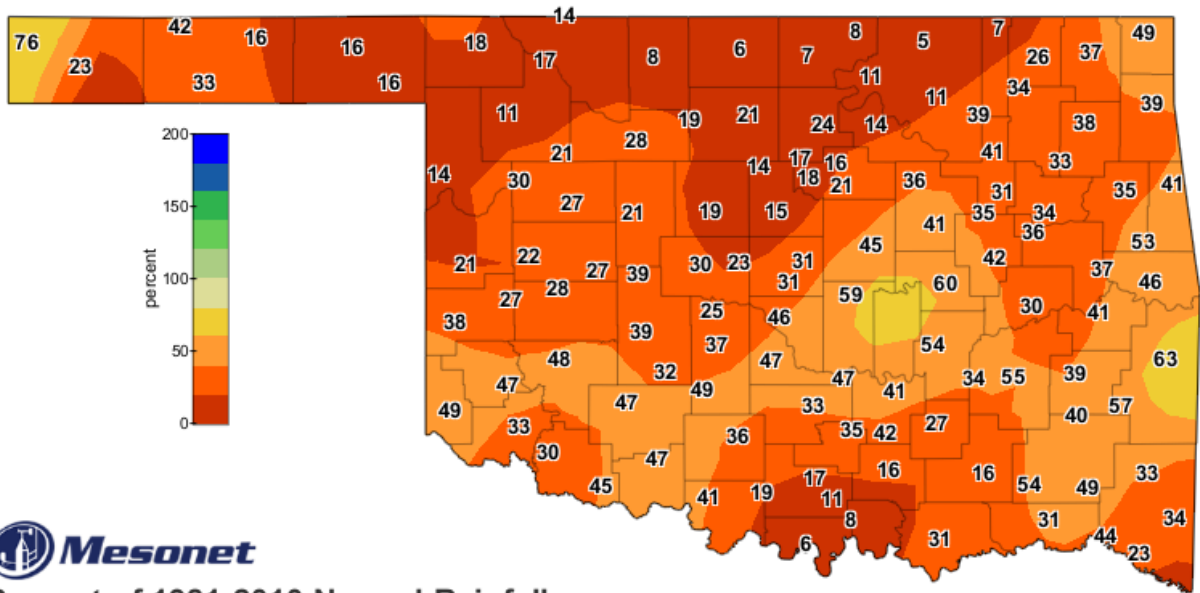
Mesonet

Departure from 1981-2010 Normal Rainfall
Calendar Month to Date

Jan 1, 2022 through Jan 31, 2022

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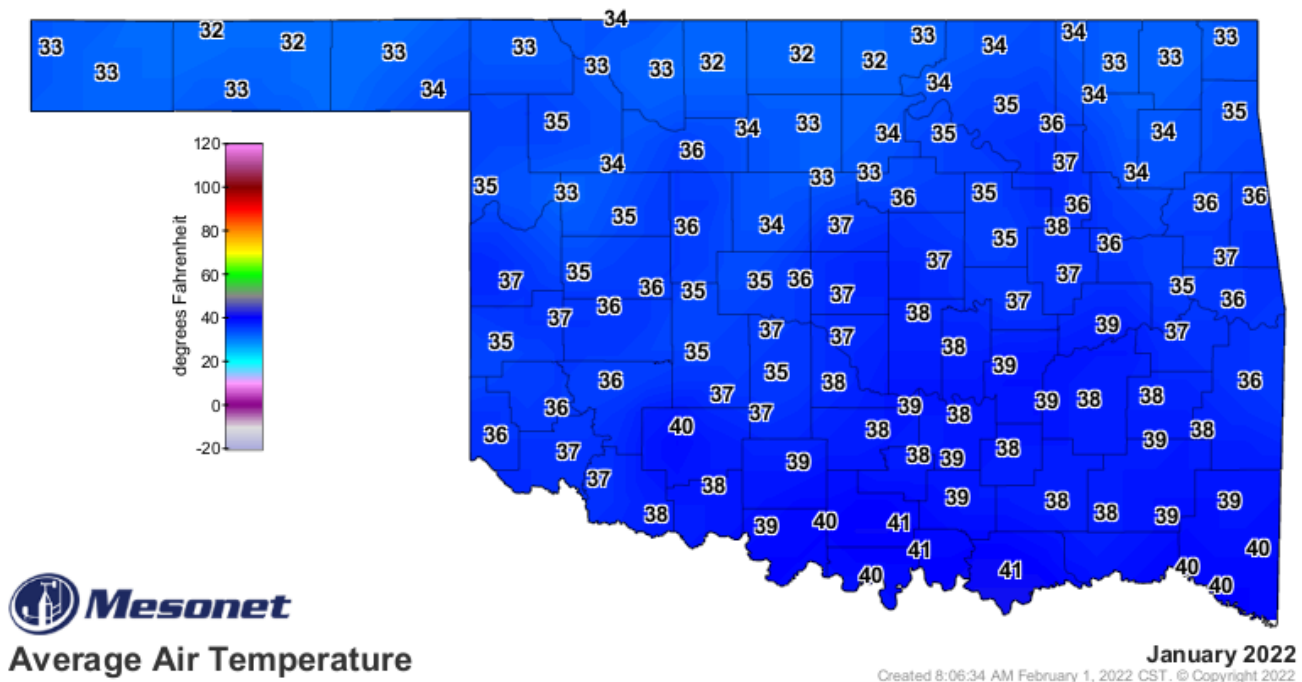
JANUARY 2022 PERCENT OF NORMAL PRECIPITATION



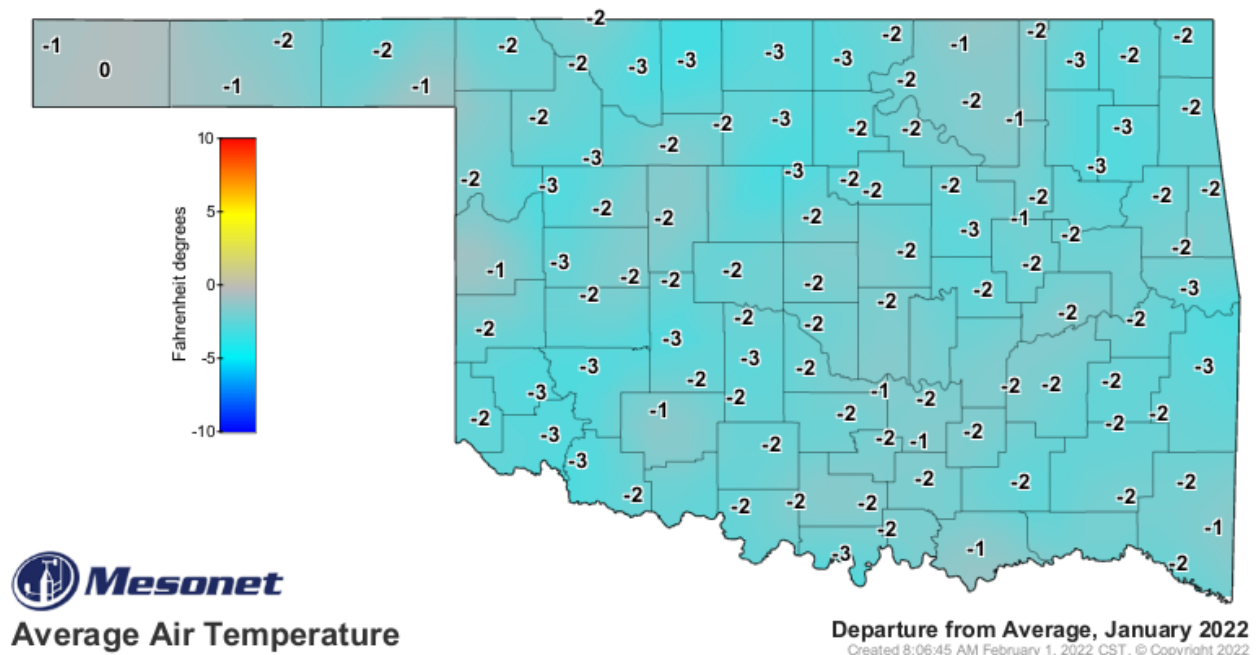
Percent of 1981-2010 Normal Rainfall
Calendar Month to Date

Jan 1, 2022 through Jan 31, 2022
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JANUARY 2022 AVERAGE TEMPERATURE



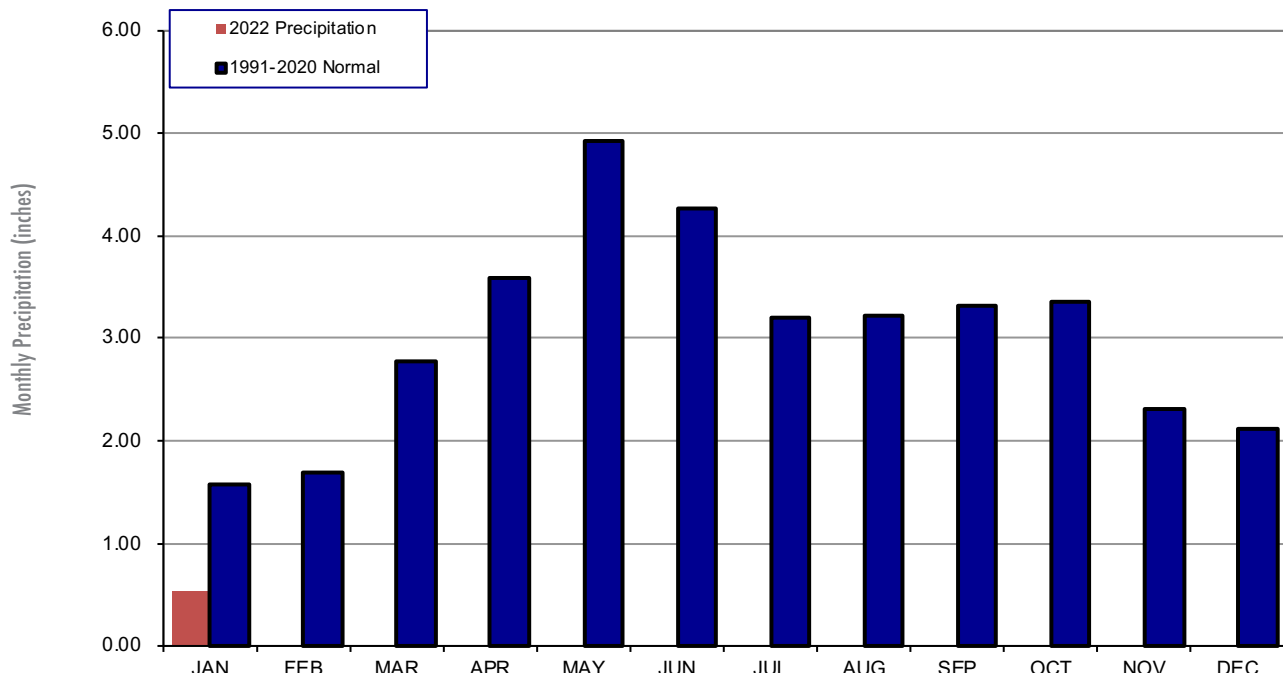
JANUARY 2022 DEPARTURE FROM NORMAL TEMPERATURE



MESONET MONTHLY SUMMARY FOR JANUARY 2022

NAME	MEAN TEMP	HIGH TEMP	LOW DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY	NAME	MEAN TEMP	HIGH TEMP	LOW DAY	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY
PANHANDLE																					
Arnett	35.4	75	8	6	21	918	0	.10	.06	3	Goodwell	35.0	72	8	1	2	931	0	.11	.07	21
Beaver	33.5	70	31	0	2	976	0	.09	.07	3	Hooker	33.4	69	31	-3	2	980	0	.08	.03	26
Boise City	33.9	67	31	-3	2	963	0	.11	.04	26	Kenton	33.5	69	31	-5	2	978	0	.32	.09	2
Buffalo	34.3	71	31	1	2	951	0	.12	.11	3	Slapout	35.8	70	8	5	2	907	0	.10	.08	3
Eva	33.0	69	31	-6	2	991	0	.20	.09	21											
NORTH CENTRAL																					
Alva	34.4	72	31	4	21	948	0	*****	.07	3	May Ranch	35.3	71	31	6	2	920	0	.10	.07	3
Blackwell	33.2	71	31	5	21	986	0	.08	.07	3	Medford	33.5	69	31	5	21	976	0	.07	.05	3
Breckinridge	34.3	71	31	4	21	953	0	.23	.13	27	Newkirk	34.4	70	31	5	21	949	0	.08	.05	3
Cherokee	33.9	72	31	5	2	964	0	.09	.03	3	Red Rock	35.3	72	31	5	21	921	0	.29	.11	1
Fairview	36.1	72	31	5	21	896	0	.24	.11	27	Seiling	34.5	70	31	3	21	944	0	.19	.09	3
Freedom	34.5	72	31	4	2	947	0	.13	.11	3	Woodward	36.4	72	31	7	2	888	0	.09	.09	3
Lahoma	34.9	72	31	6	21	933	0	.19	.09	27											
NORTHEAST																					
Bixby	36.9	72	31	11	21	870	0	.61	.54	1	Pawnee	36.3	72	31	5	21	890	0	.19	.14	1
Burbank	34.9	72	31	5	21	933	0	.13	.05	1	Porter	37.2	71	31	9	21	862	0	.74	.66	1
Copan	35.0	70	31	5	21	929	0	.11	.05	1	Pryor	34.8	69	31	7	21	935	0	.81	.55	1
Foraker	35.0	71	31	6	21	931	0	.06	.02	1	Skiatook	37.2	70	31	9	21	861	0	.63	.50	1
Inola	35.4	70	31	8	21	919	0	.72	.56	1	Talala	34.9	70	31	5	21	932	0	.57	.46	1
Jay	35.3	68	31	6	21	922	0	.95	.56	1	Tulsa	38.0	71	31	9	21	838	0	.68	.58	1
Miami	34.2	68	31	6	21	955	0	.94	.55	1	Vinita	33.6	69	31	5	21	974	0	.66	.46	1
Nowata	33.6	69	31	4	21	974	0	.44	.33	1	Wynona	36.1	72	31	7	21	896	0	.19	.13	1
WEST CENTRAL																					
Bessie	37.5	74	13	6	21	851	0	.32	.17	27	Erick	36.0	74	8	6	21	899	0	.29	.12	1
Butler	35.8	74	13	5	2	904	0	.22	.08	2	Putnam	36.2	70	31	6	21	892	0	.26	.14	27
Camargo	34.5	72	8	1	21	945	0	.28	.15	27	Watonga	37.3	70	29	8	21	858	0	.24	.12	3
Cheyenne	38.2	72	8	9	7	831	0	.16	.07	27	Weatherford	36.8	71	8	9	21	874	0	.31	.20	27
Elk City	37.7	73	13	7	21	845	0	.27	.14	27											
CENTRAL																					
Acme	38.2	72	13	3	21	830	0	.68	.56	1	Norman	38.0	72	31	10	21	838	0	.71	.65	1
Bristow	36.2	71	31	5	21	893	0	.69	.66	1	Oilton	35.8	71	31	3	21	904	0	.58	.53	1
Lake Carl Blac	34.5	72	31	0	21	946	0	.22	.15	1	OKC East	37.8	71	31	7	21	844	0	.44	.43	1
Chandler	38.0	72	31	6	21	836	0	.65	.61	1	Okemah	37.4	69	31	8	21	856	0	1.17	1.11	1
Chickasha	36.6	72	31	4	21	880	0	.50	.44	1	Perkins	36.9	72	31	6	21	872	0	.27	.23	1
El Reno	35.7	72	31	2	21	910	0	.33	.15	1	Seminole	38.8	72	31	9	21	811	0	1.05	1.03	1
Guthrie	37.3	72	31	6	21	859	0	.20	.18	1	Shawnee	38.5	71	31	8	21	820	0	.96	.88	1
Kingfisher	35.4	73	31	3	21	919	0	.21	.15	3	Spencer	38.5	71	31	5	21	820	0	.45	.45	1
Marena	36.5	73	31	7	21	882	0	.23	.17	1	Stillwater	35.6	73	31	4	21	912	0	.21	.17	1
Minco	37.1	70	31	10	21	864	0	.33	.22	1	Washington	38.7	72	31	7	21	816	0	.77	.71	1
Marshall	34.7	72	31	3	21	938	0	.17	.09	1	Yukon	36.9	71	31	9	21	870	0	.28	.17	1
EAST CENTRAL																					
Cookson	37.0	68	31	7	21	867	0	1.36	1.03	1	Sallisaw	37.0	70	31	10	21	867	0	1.27	1.16	1
Eufaula	39.3	70	31	10	21	797	0	.70	.67	1	Stigler	37.9	70	31	11	21	840	0	1.14	1.08	1
Haskell	36.6	71	31	9	21	880	0	.78	.71	1	Stuart	39.8	69	13	11	21	782	0	.85	.84	1
Hectorville	38.3	71	31	9	21	827	0	.65	.62	1	Tahlequah	36.1	68	31	11	21	896	0	.87	.63	1
Holdenville	39.2	69	31	8	21	799	0	1.05	1.02	1	Webbers Falls	36.3	70	31	9	21	890	0	.95	.87	1
McAlester	39.3	69	13	8	21	798	0	1.33	1.31	1	Westville	35.8	66	31	10	21	905	0	1.11	.81	1
Okmulgee	37.2	71	31	8	21	862	0	.83	.78	1											
SOUTHWEST																					
Altus	37.9	76	8	9	27	839	0	.35	.14	28	Hollis	37.8	75	13	8	21	844	0	.36	.17	27
Apache	37.8	72	13	8	21	845	0	.40	.26	1	Mangum	36.6	75	13	4	21	880	0	.52	.22	1
Fort Cobb	36.9	72	31	6	21	872	0	.44	.28	1	Medicine Park	40.4	73	13	12	1	763	0	.66	.46	1
Grandfield	39.5	76	18	10	21	789	0	.59	.42	1	Tipton	37.9	76	8	7	21	841	0	.33	.18	27
Hinton	36.7	69	31	7	21	879	0	.45	.21	27	Walters	39.4	75	13	10	21	795	0	.62	.53	1
Hobart	36.7	73	13	7	21	877	0	.48	.22	28											
SOUTH CENTRAL																					
Ada	39.1	72	13	7	21	803	0	.82	.78	1	Lane	39.5	74	13	11	21	789	0	.46	.40	1
Ardmore	41.2	75	13	12	21	738	0	.22	.17	1	Madill	41.0	75	13	12	21	745	0	.16	.12	1
Burneyville	40.1	76	13	7	21	772	0	.10	.07	1	Newport	41.0	76	13	12	21	745	0	.31	.25	1
Byars	39.9	72	13	9	21	779	0	.89	.87	1	Pauls Valley	39.2	73	13	7	21	801	0	.59	.55	1
Centrahoma	39.3	73	13	8	21	796	0	.65	.63	1	Ringling	40.4	75	18	10	21	762	0	.33	.32	1
Durant	42.1	73	13	14	21	709	0	.70	.64	1	Sulphur	38.6	73	13	9	21	820	0	.70	.65	1
Fittstown	39.7	72	13	10	21	785	0	.90	.83	1	Tishomingo	39.3	73	13	12	21	798	0	.36	.28	1
Ketchum Ranch	39.5	75	18	10	21	791	0	.61	.56	1	Waurika	40.4	78	18	8	21	763	0	.59	.54	1
SOUTHEAST																					
Antlers	39.9	74	13	11	21	779	0	1.51	1.44	1	Mt Herman	39.9	71	13	15	22	777	0	1.09	.70	1
Broken Bow	41.3	73	13	16	22	736	0	1.17	.72	1	Talihina	39.3	70	13	11	21	797	0	1.86	1.65	1
Clayton	39.7	70	13	11	21	783	0	1.17	1.05	1	Valliant	41.1	72	13	15	22	742	0	1.36	1.10	1
Cloudy	40.2	72	13	15	22	768	0	1.48	1.22	1	Wilburton	38.5	70	31	9	21	822	0	1.08	.93	1
Hugo	*****	***	***	***	***	*****	*****	.91	.84	1	Wister	37.8	70	31	10	21	844	0	1.84	1.61	1
Idabel	41.1	71	13	15	22	740	0	.72	.35	1											

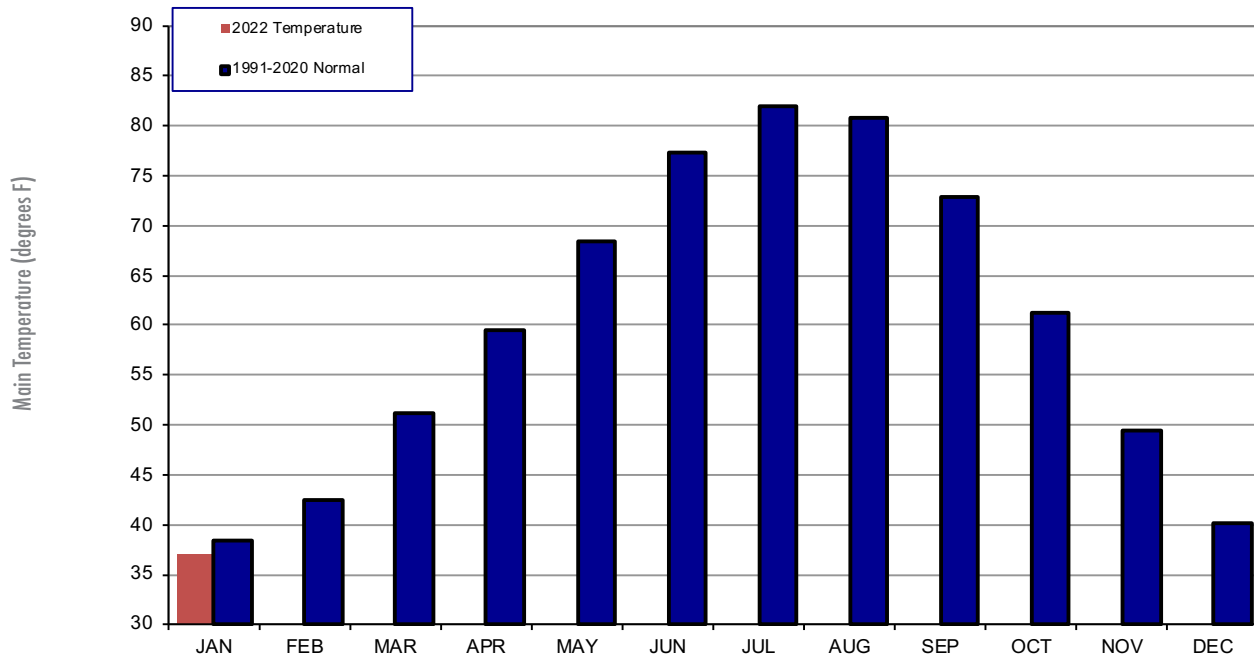
2022 STATEWIDE PRECIPITATION MONTHLY TOTALS VS. NORMAL



January 2022 Mesonet Precipitation Comparison

Climate Division	Precipitation (inches)	Departure from Normal (inches)	Rank since 1895	Wettest on Record (Year)	Driest on Record (Year)	Jan-21 (inches)
Panhandle	0.14	-0.43	28th Driest	1.94 (2017)	0.00 (1923)	0.55
North Central	0.15	-0.83	16th Driest	4.16 (1949)	0.00 (1986)	1.91
Northeast	0.53	-1.19	14th Driest	6.87 (1916)	0.01 (1986)	3.48
West Central	0.26	-0.62	34th Driest	3.74 (1949)	0.00 (1976)	1.34
Central	0.50	-0.92	31st Driest	5.58 (1949)	0.00 (1986)	2.23
East Central	0.99	-1.43	30th Driest	11.21 (1916)	0.04 (1986)	2.42
Southwest	0.47	-0.58	42nd Driest	4.48 (1949)	0.00 (1912)	1.24
South Central	0.52	-1.51	23rd Driest	7.70 (1916)	0.03 (1986)	2.36
Southeast	1.29	-1.95	23rd Driest	11.13 (1949)	0.20 (1943)	4.74
Statewide	0.52	-1.05	20th Driest	5.35 (1949)	0.03 (1986)	2.24

2022 STATEWIDE TEMPERATURE MONTHLY TOTALS VS. NORMAL



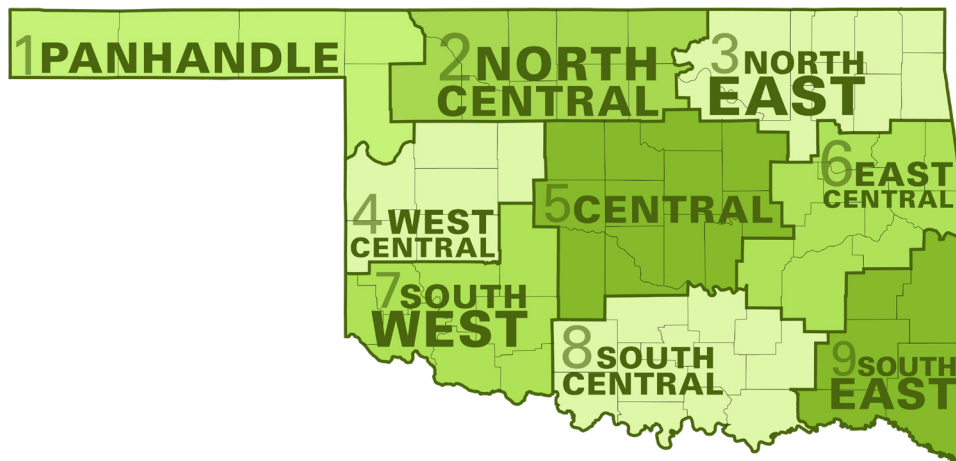
January 2022 Mesonet Temperature Comparison

Climate Division	Average Temp (F)	Departure from Normal (F)	Rank since 1895	Hottest on Record (Year)	Coldest on Record (Year)	Jan-21 (F)
Panhandle	34.2	-1.1	61st Coolest	42.9 (2006)	19.7 (1940)	36.5
North Central	34.7	-1.1	63rd Warmest	45.0 (2006)	18.8 (1940)	37.9
Northeast	35.5	-0.9	62nd Coolest	46.2 (2006)	20.6 (1940)	38.2
West Central	36.7	-0.9	60th Warmest	46.1 (2006)	21.3 (1930)	39.2
Central	37.0	-1.6	56th Coolest	47.7 (2006)	22.8 (1930)	39.7
East Central	37.7	-1.5	50th Coolest	48.0 (1923)	24.8 (1918)	40.6
Southwest	38.0	-2.1	53rd Coolest	48.1 (2006)	23.6 (1930)	41.3
South Central	40.0	-1.3	58th Coolest	49.7 (1923)	27.5 (1930)	42.6
Southeast	39.9	-1.1	61st Coolest	48.7 (1907)	27.7 (1918)	42.4
Statewide	37.0	-1.3	59th Coolest	46.8 (2006)	23.7 (1940)	39.7

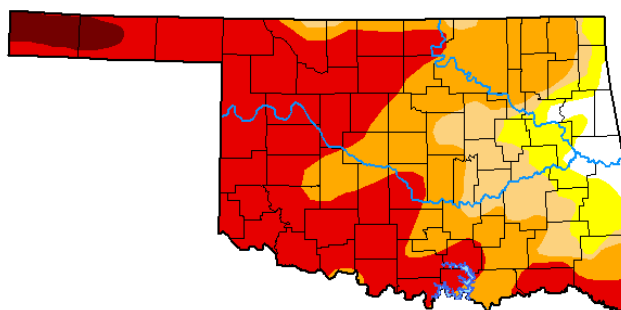
MESONET EXTREMES FOR JANUARY 2022

Climate Division	High Temp (F)	Day	Station	Low Temp (F)	Day	Station	High Monthly Rainfall (inches)	Station	High Daily Rainfall (inches)	Day	Station
Panhandle	75	8th	Arnett	-6	2nd	Eva	0.32	Kenton	0.11	3rd	Buffalo
North Central	72	31st	Red Rock	3	21st	Seiling	0.29	Red Rock	0.13	27th	Breckinridge
Northeast	72	31st	Pawnee	4	21st	Nowata	0.95	Jay	0.66	1st	Porter
West Central	74	13th	Butler	1	21st	Camargo	0.32	Bessie	0.20	27th	Weatherford
Central	73	31st	Stillwater	0	21st	Lake Carl Blackwell	1.17	Okemah	1.11	1st	Okemah
East Central	71	31st	Okmulgee	7	21st	Cookson	1.36	Cookson	1.31	1st	McAlester
Southwest	76	18th	Grandfield	4	21st	Mangum	0.66	Medicine Park	0.53	1st	Walters
South Central	78	18th	Waurika	7	21st	Burneyville	0.90	Fittstown	0.87	1st	Byars
Southeast	74	13th	Antlers	9	21st	Wilburton	1.86	Talihina	1.65	1st	Talihina
Statewide	78	18th	Waurika	-6	2nd	Eva	1.86	Talihina	1.65	1st	Talihina

Oklahoma Climate Divisions



U.S. Drought Monitor Oklahoma



January 25, 2022

(Released Thursday, Jan. 27, 2022)

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	3.91	96.09	88.23	77.66	49.17	2.90
Last Week 01-18-2022	4.80	95.20	88.04	73.86	46.55	2.06
3 Months Ago 10-26-2021	5.05	94.95	40.74	10.90	0.77	0.00
Start of Calendar Year 01-04-2022	5.02	94.98	88.14	72.26	40.44	0.00
Start of Water Year 09-28-2021	6.45	93.55	73.23	23.72	2.65	0.00
One Year Ago 01-26-2021	75.15	24.85	10.93	4.05	0.23	0.00

Intensity:

None	D2 Severe Drought
D0 Abnormally Dry	D3 Extreme Drought
D1 Moderate Drought	D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

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U.S. Department of Agriculture



droughtmonitor.unl.edu

INTERPRETATION INFORMATION

MEAN DAILY TEMPERATURE: Calculated from an average of the daily maximum and minimum temperatures. Daily averages are summed for each day, and then divided by the number of valid data points - typically the number of days in the month. Although this November differs from the “true” daily average, it is consistent with historical methods of observation and comparable to the normals and extremes for stations and regions of the state.

DEGREE DAYS: Degree Days are calculated each day of the month for which there is a temperature report and the mean temperature for the day is less than (Heating Degree Days) or greater than (Cooling Degree Days) 65 degrees. Daily values are summed to arrive at a monthly total. HDD/CDD are qualitative measures of how much heating/cooling was required to maintain a comfortable indoor temperature. Missing observations November result in an artificially high or low value.

ADDITIONAL RESOURCES

SUNRISE / SUNSET TABLES

U.S. Naval Observatory: <http://aa.usno.navy.mil/data>

SEVERE STORM REPORTS

Storm Prediction Center: <http://spc.noaa.gov/climo/>

National Centers for Environmental Information:

<https://www.ncdc.noaa.gov/stormevents/>

SEASONAL OUTLOOKS

Climate Prediction Center:

http://www.cpc.ncep.noaa.gov/products/OUTLOOKS_index.shtml

CLIMATE CALENDARS AND OTHER LOCAL WEATHER AND CLIMATE INFORMATION

Oklahoma Climatological Survey:

<http://climate.mesonet.org> or <http://climate.ok.gov/>



Oklahoma Climatological Survey is the State Climate Office for Oklahoma

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